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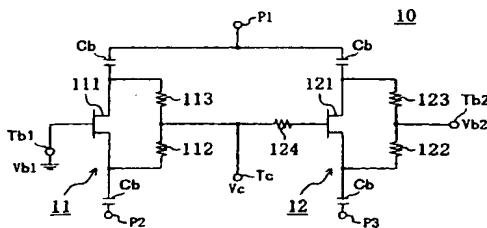
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(54) Title: SWITCH DEVICE

(54) 発明の名称: スイッチ装置



connected by switching.

(57) Abstract: A switch device (10) comprises three connection terminals (P1, P2, P3) and two FETs (111, 121) of the same channel type. One of a pair of main terminals of each of the two FETs is connected to a first connection terminal through a DC blocking capacitive element (Cb), and the others are connected to second and third connection terminals through DC blocking capacitive elements (Cb), respectively. A first bias voltage (Vb1) is applied to the gate of a first FET, and a second bias voltage (Vb2) is applied to the paired main terminals of the second FET. A two-level control voltage (Vc) is applied to the paired main terminals of the first FET and the gate of the second FET. Thus, the first and second or third connection terminals are electrically

(57) 要約:

本発明のスイッチ装置 (10) は、3つの接続用端子 (P1, P2, P3) と2つの同チャネル型 FET (111, 121) を有し、2つの FET の一対の主端子の一方が第1の接続用端子に、他方が第2及び第3の接続用端子に、それぞれ直流阻止用容量性素子 (Cb) を介して接続されており、第1の FET のゲートに第1のバイアス電圧 (Vb1) が、第2の FET の一対の主端子に第2のバイアス電圧 (Vb2) が与えられ、2値の制御電圧 (Vc) が、第1の FET の一対の主端子と第2の FET のゲートとに与えられることにより、第1の接続用端子と第2または第3の接続用端子とが電氣的に切替接続される。



SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,  
VN, YU, ZA, ZM, ZW.

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— 国際調査報告書

2文字コード及び他の略語については、定期発行される  
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のガイダンスノート」を参照。

## INTERNATIONAL SEARCH REPORT

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PCT/JP03/07896

A. CLASSIFICATION OF SUBJECT MATTER  
Int.Cl<sup>7</sup> H03K17/687

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
Int.Cl<sup>7</sup> H03K17/687Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2003  
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 05-299995 A (Nippon Telegraph And Telephone Corp.), 12 November, 1993 (12.11.93), Fig. 9 (Family: none)	1-24
A	JP 04-346513 A (Mitsubishi Electric Corp.), 02 December, 1992 (02.12.92), Fig. 1 (Family: none)	1-24
A	JP 06-132701 A (Mitsubishi Electric Corp.), 13 May, 1994 (13.05.94), Fig. 1 (Family: none)	1-24

☐ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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